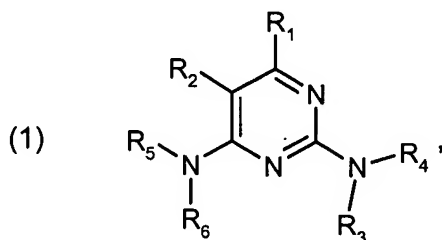


Claims 1-21 (cancelled).

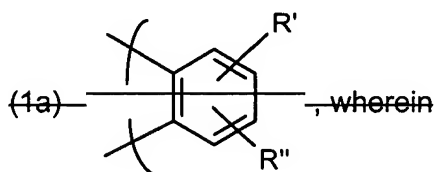
22. **(currently amended)** A method for the antimicrobial treatment of a surface of a plastic, which comprises contacting said ~~surface plastic~~ with an antimicrobially effective amount of a 2,4-bis(alkylamino)pyrimidine of formula



wherein

R₁ is C₁-C₁₂alkyl or C₆-C₁₀aryl;

R₂ is hydrogen or C₁-C₁₂alkyl; ~~or R₄ and R₂ together form a radical of formula~~



~~R' and R'' are each independently of the other hydrogen, C₄-C₆alkyl or C₄-C₆alkoxy;~~

R₃ and R₅ are each independently of the other hydrogen or C₁-C₈alkyl;

R₄ is C₁-C₂₀alkyl, unsubstituted phenyl, C₆-C₁₀aryl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₁-C₆alkyl, di-C₁-C₆alkylamino-C₁-C₆alkyl, mono-C₁-C₆alkylamino-C₁-C₆alkyl, -(CH₂)₂-(O-(CH₂)₂)₁₋₄-OH or -(CH₂)₂-(O-(CH₂)₂)₁₋₄-NH₂;

R₆ is C₁-C₂₀alkyl, C₆-C₁₀aryl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₁-C₆alkyl, di-C₁-C₆alkylamino-C₁-C₆alkyl, mono-C₁-C₆alkylamino-C₁-C₆alkyl, -(CH₂)₂-(O-(CH₂)₂)₁₋₄-OH or -(CH₂)₂-(O-(CH₂)₂)₁₋₄-NH₂; or

R₃ and R₄ and/or R₅ and R₆ together form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

23. **(previously presented)** A method according to claim 22, wherein

R₁ is C₁-C₈alkyl or phenyl.

24. **(previously presented)** A method according to claim 22, wherein

R₂ is hydrogen or C₃-C₈alkyl.

25. **(previously presented)** A method according to claim 22, wherein

R₃ and R₅ are each independently of the other hydrogen or C₁-C₈alkyl.

26. **(previously presented)** A method according to claim 22, wherein

R₄ is C₁-C₁₂alkyl, unsubstituted phenyl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂; and

R₆ is C₁-C₁₂alkyl, C₆-C₁₀aryl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂.

27. **(previously presented)** A method according to claim 22, wherein

R₁ is C₁-C₈alkyl or phenyl;

R₂ is hydrogen or hexyl; and

R₃ and R₅ are each independently of the other hydrogen or C₁-C₈alkyl;

R₄ is C₁-C₁₂alkyl, unsubstituted phenyl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂; and

R₆ is C₁-C₁₂alkyl, C₆-C₁₀aryl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂; or

R₃ and R₄ and/or R₅ and R₆ together form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

28. **(cancelled)**

29. **(currently amended)** A method according to claim 22, wherein

R₁ is C₁-C₄alkyl or phenyl;

R₂ is hydrogen or hexyl; ~~or R₄ and R₂ together form a radical of formula (1a) as defined in claim 22,~~
wherein

~~R' is hydrogen, C₄-C₃alkyl or C₄-C₃alkoxy, and~~

~~R'' is C₄-C₃alkyl or C₄-C₃alkoxy;~~

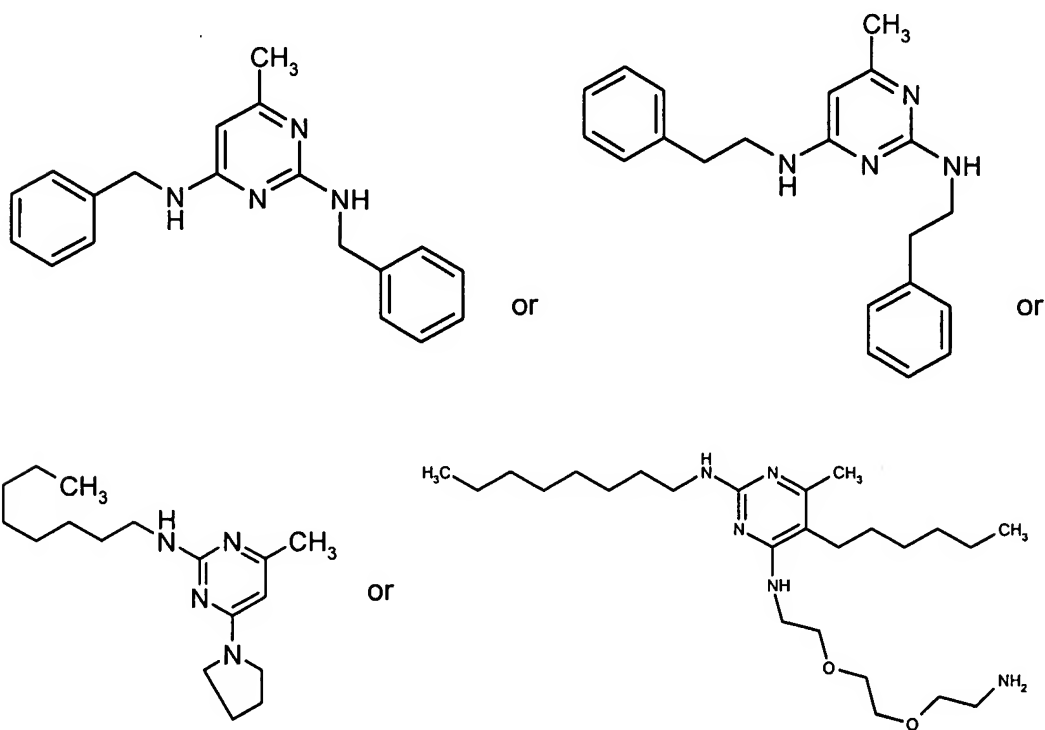
R₃ and R₅ are each independently of the other hydrogen or C₁-C₈alkyl;

R₄ is C₁-C₁₂alkyl, unsubstituted phenyl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂; and

R_6 is C_1 - C_{12} alkyl, C_6 - C_{10} aryl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-NH_2$; or R_3 and R_4 together, and R_5 and R_6 together, form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

30. **(previously presented)** A method according to claim 22, wherein R_3 and R_5 , and R_4 and R_6 , have the same meanings.

31. **(previously presented)** A method according to claim 22, wherein the 2,4-bis(alkylamino)pyrimidine is of the formula



32-42. **(cancelled)**